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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/881,215	06/15/2001	Peter A. Crooks	50229-267	5136
7:	590 05/05/2005		EXAM	NER
MCDERMOTT, WILL & EMERY			FAY, ZOHREH A	
600 13th Street Washington, D	, N.W. OC 20005-3096		50229-267 513 EXAMINER FAY, ZOHREH A	PAPER NUMBER
3 ,			1618	
			DATE MAILED: 05/05/2005	;

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	Applicant(s)	
Office Action Commons	09/881,215	PETER CROOKS		
Office Action Summary	Examiner	Art Unit	-	
	Zohreh Fay	1618		
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	ith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of this eriod will apply and will expire SIX (6) MON statute, cause the application to become Al	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).		
Status			-	
1) Responsive to communication(s) filed on	·			
	This action is non-final.			
3) Since this application is in condition for all	owance except for formal mat	ers, prosecution as to the merits is		
closed in accordance with the practice und	der <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.		
Disposition of Claims				
4) Claim(s) <u>1-5,7,9,11 and 13-20</u> is/are pend	ing in the application.			
4a) Of the above claim(s) 1-4 is/are withdra				
5) Claim(s) is/are allowed.				
6) Claim(s) <u>5, 7, 9, 11 and 13-20</u> is/are reject	ted.			
7) Claim(s) is/are objected to.	•			
8) Claim(s) are subject to restriction a	nd/or election requirement.	•		
Application Papers				
9)☐ The specification is objected to by the Exa	miner.			
10)☐ The drawing(s) filed on is/are: a)☐		by the Examiner.		
Applicant may not request that any objection to	•	•		
Replacement drawing sheet(s) including the co	prrection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the	e Examiner. Note the attache	d Office Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	pplication No received in this National Stage		
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) s)/Mail Date		
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date	·	nformal Patent Application (PTO-152)		
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Claims 5, 7, 9, 11 and 13-20 are presented for examination.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 5, 7, 9, 11 and 13-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wada et al. (1997).

Wada et al. Teach 1-(m-chlorophenyl)-biguanide and its therapeutic use in the treatment of seizure (i.e. reduction of occurrence) associated with epilepsy. See the abstract. Since 1-(m-chlorophenyl)-biguanide has the structure that is embraced by the generic formula agmatine analog required by claim 5, all the claimed subject matter is met by the teaching of cited reference and it is not patentably distinct over the prior art of record. Wada et al. Differs from the claimed invention in the specific dosage regimen (0.1-500 mg/kg) and using a human subject as it is required by claims 13-20. It would have been obvious to a person skilled in the art to use the information from an animal study and incorporate it into human use, considering that animal studies are the

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preliminary steps for human study. The determination of optimum proportions or amounts is considered to be within the skill of the artisan in the absence of evidence to the contrary. One skilled in the art would have been motivated to employ the teachings of the above reference, since it relates to a compound within the scope of the claimed invention for the treatment of seizures associated with epilepsy. The determination of optimum proportions or amounts is considered to be within the skill of the art in the absence of evidence to the contrary. To use animal studies as a preliminary step for human studies is also within the skill of art.

Claims 5, 7, 9, 11 and 13-20 are rejected under 35 U.S.C. 103 as being unpatentable over Uzbay (2000) in view of Rajasekaran (2000).

Uzbay teaches the use of agmatine (40mg) for the treatment of audiogenic seizure due to ethanol withdrawal. See page 156. It further teaches that the therapeutic effects are resulted from blocking nitric oxide synthesis and selective inhibition of the NMD subclass of glutamate receptor channels. The above reference differs from the claimed invention in treating seizure caused by epilepsy and also the use of compound in human subject. Rajasekaran teaches the anticonvulsant activity of agmatine used in the treatment of seizure due to epilepsy. See pages 1-5.

Rajasekaran further teaches the underlying mechanism for anticonvulsant activity is utilizing NO inhibition, wherein NO is produced in the neurons in response to activation by NMD receptors, see page 1. Thus, it would have been obvious to a person skilled in the art to modify Uzbay's teaching in view of Rajaekaren to treat seizure caused by not only ethanol withdrawal but also due to epilepsy. It would have been obvious to a

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person skilled in the art to use a compound used for treating seizure and use for the treatment of seizure due to any cause in the absence of evidence to the contrary.

Applicant has presented no evidence to establish the unexpected or unobvious nature of the claimed invention, and as such, claims 5, 7, 9, 11 and 13-20 are property rejected under 35 U.S.C. 103.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zohreh Fay whose telephone number is (571) 272-0573. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman Page can be reached on (571) 272-0602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ZOHREH FAY PRIMARY EXAMINER GROUP 1200

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